

AWFCG Research Products

Task

Task Name	Evaluating the Effectiveness of Fuel Treatments in Alaska
Completion Date	10/10/2018
FRDAC Representative	Eric Miller
AWFCG Sponsor	Eric Miller

Product	Forest Treatments to Reduce Fire Hazard in Alaska: A Compilation of Case Studies
Date	4/1/2019
Description	Report
Citation	Jandt, R.R., S.A. Drury, J.M. Little, A. Molina, and B. Lane. 2019. Special report to the Joint Fire Science Project 14-4-01-27.
URL	https://www.researchgate.net/publication/332333118_Forest_Treatments_to_Reduce_Fire_Hazard_in_Alaska_A_Compilation_of_Case_Studies
DOI	10.13140/RG.2.2.15091.58403
Contact	Randi Jandt rjandt@alaska.edu

Product	Evaluating the Effectiveness of Fuel Treatments in Alaska
Date	1/1/2018
Description	Report
Citation	Little, J, R. Jandt, S. Drury, A. Molina, and B. Lane. 2018. Evaluating the Effectiveness of Fuel Treatments in Alaska. Final Report to the Joint Fire Science Program. Project 14-5-01-27.
URL	https://www.firescience.gov/projects/14-5-01-27/project/14-5-01-27_final_report.pdf
DOI	
Contact	

Task

Task Name Products resulting from ADF&G projects prior to 2019
Completion Date 3/20/2019
FRDAC Representative Tom Paragi
AWFCG Sponsor Tom Paragi

Product Male moose movements burns ATV access

Date 1/1/2018

Description Article

Citation Brown, C. L., K. Kielland, T. J. Brinkman, S. L. Gilbert, and E. S. Euskirchen. 2018. Resource selection and movement of male moose in response to varying levels of off-road vehicle access. *Ecosphere* 9(9)

URL

DOI e02405. 10.1002/ecs2.2405

Contact

Product Tundra avian response to fire

Date 1/1/2018

Description Article

Citation Pérez, J.H., Chmura, H.E. and Krause, J.S., 2018. Tundra avian community composition during recovery from the Anaktuvuk River Fire. *International Journal of Wildland Fire*, 27:69-71.

URL

DOI

Contact

Product Moose browsing effects forest succession
Date 1/1/2018
Description Article
Citation Conway, A.J. and Johnstone, J.F., 2017. Moose alter the rate but not the trajectory of forest canopy succession after low and high severity fire in Alaska. Forest Ecology and Management 391:154-163.
URL
DOI
Contact

Product Fire, lichen, caribou
Date 1/1/2018
Description Article
Citation Jandt, R., and K. Joly. 2018. Fire, lichens, and caribou: what do we know? Research Brief 2018, Alaska Fire Science Consortium, University of Alaska, Fairbanks.
URL
DOI
Contact

Product Male moose response to fire
Date 1/1/2017
Description Article
Citation Brown, C.L., Kielland, K., Euskirchen, E.S., Brinkman, T.J., Ruess, R.W. and Kellie, K.A., 2017. Fire-mediated patterns of habitat use by male moose (*Alces alces*) in Alaska. *Canadian Journal of Zoology* 96:183-192.
URL
DOI
Contact

Product Hunter access to subsistence resources
Date 1/1/2016
Description Article
Citation Brinkman, T.J., Hansen, W.D., Chapin, F.S., Kofinas, G., BurnSilver, S. and Rupp, T.S., 2016. Arctic communities perceive climate impacts on access as a critical challenge to availability of subsistence resources. *Climatic Change*
URL
DOI 10.1007/s10584-016-1819-6
Contact

Product Fire extent and severity effects moose harvest
Date 1/1/2015
Description Article
Citation Brown, C.L., Seaton, K.A., Brinkman, T.J., Euskirchen, E.S. and Kielland, K., 2015. Applications of resilience theory in management of a moose–hunter system in Alaska. Ecology and Society 20(1)
URL <https://www.ecologyandsociety.org/vol20/iss1/art16/>
DOI
Contact

Product Fire severity forage production moose behavior
Date 1/1/2015
Description Article
Citation Lord, R. and Kielland, K., 2015. Effects of variable fire severity on forage production and foraging behavior of moose in winter. Alces 51:23-34.
URL
DOI
Contact

Product Climate driven effects caribou winter habitat
Date 1/1/2014
Description Article
Citation Gustine, D.D., Brinkman, T.J., Lindgren, M.A., Schmidt, J.I., Rupp, T.S. and Adams, L.G., 2014. Climate-driven effects of fire on winter habitat for caribou in the Alaskan-Yukon Arctic. PloS One 9(7).e100588.
URL
DOI
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Product Fire lichen caribou winter distribution
Date 1/1/2011
Description Article
Citation Collins, W.B., Dale, B.W., Adams, L.G., McElwain, D.E. and Joly, K., 2011. Fire, grazing history, lichen abundance, and winter distribution of caribou in Alaska's taiga. Journal of Wildlife Management 75:369-377.
URL
DOI
Contact

Product Climate projections wildlife habitat
Date 1/1/2010
Description Report
Citation Murphy, K., F. Huettmann, N. Fresco, and J. Morton. 2010. Connecting Alaska landscapes into the future. Final report, US Fish and Wildlife Service, Anchorage, Alaska
URL
DOI
Contact

Product Fire effects subsistence resources
Date 1/1/2008
Description Article
Citation Nelson, J. L., Zavaleta, E. S., & Chapin, F. S. (2008). Boreal fire effects on subsistence resources in Alaska and adjacent Canada. *Ecosystems* 11:156-171.
URL
DOI
Contact

Product Lichen recovery post-fire
Date 1/1/2008
Description Article
Citation Jandt, R., Joly, K., Meyers, R., and Racine, C., 2008. Slow recovery of lichen on burned caribou winter range in Alaska tundra: potential influences of climate warming and other disturbance factors. Arctic, Antarctic, and Alpine Research, 40:89-95.
URL
DOI
Contact

Product Fire effects subsistence opportunity
Date 1/1/2008
Description Article
Citation Chapin, F.S., Trainor, S.F., Huntington, O., Lovecraft, A.L., Zavaleta, E., Natcher, D.C., McGuire, A.D., Nelson, J.L., Ray, L., Calef, M. and Fresco, N., 2008. Increasing wildfire in Alaska's boreal forest: pathways to potential solutions of a wicked problem. BioScience 58:531-540.
URL
DOI
Contact

Product Moose abundance and fire history
Date 1/1/2005
Description Article
Citation Maier, J.A., Ver Hoef, J.M., McGuire, A.D., Bowyer, R.T., Saperstein, L. and Maier, H.A., 2005. Distribution and density of moose in relation to landscape characteristics: effects of scale. Canadian Journal of Forest Research 35:2233-2243.
URL
DOI
Contact

Product Moose distribution and density fire patterns
Date 1/1/2005
Description Article
Citation Maier, J.A., Ver Hoef, J.M., McGuire, A.D., Bowyer, R.T., Saperstein, L. and Maier, H.A., 2005. Distribution and density of moose in relation to landscape characteristics: effects of scale. Canadian Journal of Forest Research 35:2233-2243.
URL
DOI
Contact

Product Fire policy Alaska Native land use
Date 1/1/2004
Description Article
Citation Natcher, D. C. 2004. Implications of fire policy on Native land use in the Yukon Flats, Alaska. Human Ecology 32:421-441.
URL
DOI
Contact

Product Winter habitat use female caribou fire
Date 1/1/2003
Description Article
Citation Joly, K., Bruce W.; Collins, William B.; Adams, Layne G. 2003. Winter habitat use by female caribou in relation to wildland fires in interior Alaska. Canadian Journal of Zoology 81:1192-1201
URL
DOI
Contact

Product Lynx hare selection post-fire habitat
Date 1/1/1997
Description Article
Citation Paragi, T. F., Johnson, W. N., Katnik, D. D., and Magoun, A. J. 1997. Selection of post-fire seres by lynx and snowshoe hares in the Alaskan taiga. *Northwestern Naturalist* 78: 77-86.
URL
DOI
Contact

Product Marten selection post-fire habitat
Date 1/1/1996
Description Article
Citation Paragi, T. F., Johnson, W., Katnik, D. D., and Magoun, A. J. 1996. Marten selection of postfire seres in the Alaskan taiga. *Canadian Journal of Zoology*, 74:2226-2237.
URL
DOI
Contact

Product Effects fire snow winter forage selection caribou
Date 1/1/1996
Description Article
Citation Saperstein, L.B. 1996. Winter forage selection by barren-ground caribou: Effects of fire and snow. Rangifer. Special Issue No. 9:237-238.
URL
DOI
Contact

Product Wildland fire marten lynx
Date 1/1/1995
Description Report
Citation Johnson, W. N., T. F. Paragi, and D. D. Katnik. 1995. The relationship of wildland fire to lynx and marten populations and habitat in interior Alaska. U.S. Fish and Wildlife Service, Galena, Alaska. 145 p.
URL
DOI
Contact

Product Effects fire snow winter forage selection caribou
Date 1/1/1993
Description Thesis
Citation Saperstein, L.B. 1993. Winter forage selection by barren-ground caribou: Effects of fire and snow. University of Fairbanks-Alaska. Fairbanks, AK. 79 pp.
URL
DOI
Contact

Product Fire succession moose winter habitat
Date 1/1/1991
Description Article
Citation Loranger, A.J., Bailey, T.N. and Larned, W.W., 1991. Effects of forest succession after fire in moose wintering habitats on the Kenai Peninsula, Alaska. Alces 27:100-109.
URL
DOI
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